



# LARC



Volume 59, Number 09

ACADIANA AMATEUR RADIO ASSOC., INC. - a 501(c)3 Corporation

September 2019

## UL CAPE Team Launch

The UL CAPE team launched a balloon from the Lake Charles Air Port Sunday at 9:15 AM Sunday morning August 18, 2019. At 38,000 feet, the GPS quit reporting and shortly thereafter, they lost the communication link. At 10:30 AM the team issued a "cut down command" to separate the payload from the balloon. Partial communication was established when the balloon descended below 20,000 feet and the GPS started reporting its position. Data indicated the payload landed approximately 20 miles SW of Lake Charles in a heavy brush area. The team was unable to find the balloon, but plan to return to the area with a drone to search and try to recover the payload. The teams have several challenges:

Recover the payload

Investigate what caused the GPS to quit reporting at 38,000 feet

The cause of the communication link to fail

Lessons learned to improve the next launch

See more of Cajun Advanced Picosatellite Experiment on Facebook:

<https://www.facebook.com/CajunAdvancedPicosatelliteExperiment/videos/2355797637822652/>

Stay tuned. If you have any question please send us an email to this list:

CAPE mailing list:

[CAPE@lists.ulcape.org](mailto:CAPE@lists.ulcape.org)

<http://lists.ulcape.org/listinfo.cgi/cape-ulcape.org>

Nick Pugh K5QXJ

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Cell 337 258 2527



## AARA GENERAL MEETING

**September 5 @ 7:00 PM**

**Lafayette Science Museum 433 Jefferson St. Lafayette, LA**

[www.w5ddl.org/clubsite/](http://www.w5ddl.org/clubsite/)

**VE Testing @ 6:00 PM**

*The LARC is published monthly*

*By the*

*Acadiana Amateur Radio Assoc., Inc.*

*P. O. Box 51174*

*Lafayette, LA 70505-1174*

**DATES TO REMEMBER****GENERAL MEETING**

September 5, 2019 7:00 PM  
*Lafayette Science Museum*  
 433 Jefferson Street  
 Lafayette, LA

<http://www.w5ddl.org/clubsites/>

Local 2-Meter Nets

Monday

AARA Monday Night Net 7:00 PM  
 146.820 PL 103.5 Lafayette, LA

Tuesday

Region 4 SkyWarn Net 7:00 PM  
 145.370 - PL 103.5 Lafayette, LA

Wednesday

Silent Key Memorial Net 6:30 PM  
 145.410 No PL New Iberia, LA

**AARA OFFICERS 2018 - 2019**

President - Chris Ancelet N5MCY  
[cancelet@gmail.com](mailto:cancelet@gmail.com)  
 V. Pres. - Derek Meche WM5TS  
 Secr - David McCutcheon KG5JHR  
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 Steve Webre AF5VR  
 Sandy LeBlanc KE5KJF  
**YOUTH MEMBER**  
 Page Romero KG5VPR  
**OSL MANAGER**  
 Roland Guidry - NA5Q

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David McCutcheon KG5JHR

**160 Years Since The Carrington Event**

September 1 marks the 160th anniversary of the Carrington Event, the strongest geomagnetic storm known to have hit Earth since at least the 14th century. The event was named for British astronomer Richard Carrington, who first viewed and sketched the huge sunspot complex on the sun from which a gigantic solar flare -- a coronal mass ejection -- erupted, as he watched. Within hours, Earth was virtually enveloped by an aurora borealis that was visible even at lower latitudes and into the tropics. It was a truly spectacular light show that in some places, turned night into day. When the flare interacted with Earth's magnetosphere, however, it was another story.

This was the Victorian age, when practical wireless was still a few decades off, but the "auroral phenomena," as it was called then, had "a remarkable manifestation of magnetic influence" on telegraph wires -- the internet of the day, as it were. So considerable was the effect that The New York Times reported telegraph operators were able to disconnect the batteries that normally operated the system and were "working by the atmospheric current entirely!" Although the operators subsequently were able to reconnect their batteries, the storm continued to affect the lines. A telegraph manager in Pittsburgh reported "streams of fire" emitted from the circuits. In Washington, DC, telegraph operator Frederick W. Royce was severely shocked as his forehead grazed a ground wire. A witness said an arc of fire jumped from Royce's head to the telegraphic equipment.

The Times account quoted an operator in Worcester, Massachusetts, who said, "During ten years' experience in telegraphing, I have frequently observed the effect of the Aurora Borealis on the wires, but never before have I seen it so grand and appalling."

Operators said that at times the polarity of the battery power supply would become reversed. "One moment the batteries would begin to boil over, and we would have so strong a circuit that the armature would not come away from the magnet; the next moment, there would be no current at all," a report from Quebec recounted.

Based on examinations of ice samples, scientists believe that geomagnetic storms two and three times stronger occurred prior to the 14th century.

After the Carrington Event, scientists began paying a lot more attention to solar phenomena and sunspots. -- Thanks to **Frank Donovan, W3LPL**

**August 2019****VE TEST  
SESSION****1 August 2019**

*Another good night in as much as we now have a new General class ticket holder, Clifton D. Schlicher ~ KI5FYZ~ from New Iberia. Nothing in & General out. Congratulations Clif !!!*

*The VEs assisting this evening were: Greg ~ K5LFT, Dave ~ N4ELM, Galen ~ KF5BET, Michael ~ KI5ARX, Richard, ~ K7RTC & Archie ~ W5AG.*

*TNX guys & Congrats again Cliff.*

**73, de Greg ~ K5LFT**

**Thibodaux Amateur Radio Club (TARC)  
Technician Class**

Thibodaux Amateur Radio Club (TARC) will be having a technician class and license testing at:

**Council on Aging**  
995 W Tunnel Blvd.  
Houma, Louisiana

Class schedule.

Sept. 7 {9AM-11AM}  
Sept. 14 {9AM-11AM}  
Sept. 21 {9AM-11AM}  
Sept. 28 {9AM- 1PM} With lunch break and testing after lunch.

Anyone wanting to attend contact George Tippett at:  
[w5yl.thibodaux.arc@gmail.com](mailto:w5yl.thibodaux.arc@gmail.com)  
There is no charge for this class.

Thanks, John Hartley KB7ZMD

**SKYWARN Certification Course  
At Lafayette Science Museum**

**Roger Erickson KD5BUI** of the National Weather Service of Lake Charles, Louisiana will hold a SkyWarn certification course from 6:00 to 7:00 PM at the Lafayette Science Museum on Tuesday September 3, 2019. This will be in support of our ongoing Technician Class. All hams are invited to attend.

Paul McCasland N5KNY : Planetarium&Exhibits Tech

**Lafayette Science Museum**  
433 Jefferson St.  
Lafayette, LA 70501  
337-280-1622 (cell)

## **ARRL Member Had Role in Promising RF Treatment Device for Alzheimer's**

*From ARRL Newsletter August 6, 2019*

ARRL member Eric Knight, KB1EHE, played a role in the development of an RF-based Alzheimer's disease treatment that now shows great promise. A study published today in the Journal of Alzheimer's Disease following a months-long FDA clinical trial of the treatment protocol concluded that memory decline in most patients "appeared to have been reversed to cognitive levels equivalent to 12 months earlier" after 2 months of treatment. The clinical trial concluded last December 31 and focused on the initial efficacy of what NeuroEM Therapeutics, Inc. — the company developing the device — calls "transcranial electromagnetic treatment" (TEMT), using a noninvasive head-worn device called the MemorEM®.

"Results from the trial demonstrate that TEMT was safe in all eight participating patients with mild to moderate Alzheimer's disease, and enhanced cognitive performance in seven of them, as measured by standard cognition scales," said a news release from NeuroEM Therapeutics. Seven of the eight clinical trial patients agreed to take part in a 4-month extension study, based on the findings and the positive feedback from all participants.

"This pioneering study suggests that TEMT may be an entirely new therapeutic intervention against Alzheimer's disease," said NeuroEM CEO Dr. Gary Arendash. "Our bioengineering technology may be succeeding where drug therapy against this devastating disease has thus far failed. TEMT appears to be affecting the Alzheimer's disease process through several actions directly inside neurons (brain cells), which is where we believe the disease process needs to be stopped and hopefully reversed." Dr. Amanda Smith, Director of Clinical Research at the Byrd Alzheimer's Center and Research Institute at the University of South Florida Health — the clinical center for the study — coauthored the study.

Arendash has explained that TEMT in the 900 MHz range breaks down the small protein aggregates (amyloid oligomers) in brain cells that are thought to initiate Alzheimer's development.

Knight, of Unionville, Connecticut, is the president of Remarkable Technologies. He has no medical background, but several years ago, he learned of experiments that Arendash had carried out on mice specially bred to have Alzheimer's disease, in which the mice were exposed to low levels of RF for therapeutic purposes. The effects were dramatic, sometimes even reversing the disease's effects. Borrowing some concepts from earlier experiments with small rockets and avionics, Knight set about developing — and later patenting — a wearable device that could deliver requisite low levels of RF to a human head. NeuroEM was also developing a device, which it patented as well, and NeuroEM has filed multiple patents since then, Knight explained to ARRL. NeuroEM has an exclusive license to Knight's patent, and his contribution is now part of the overall mix of applied technology.

"As an inventor and entrepreneur, all you can hope for is to have a positive impact on society, and this is about as important as it gets," Knight told ARRL. "It's truly the most important and proudest moment of my professional life."

## **LOUISIANA TRAFFIC NET SIMULATED EMERGENCY TEST (SET)**

*by Herman Campbell KN5GRK*

On Sunday August 25, 2019 at 1630 hrs central time on 3910 KHz, the Louisiana Traffic Net (LTN) held a Simulated Emergency Test (SET).

Net control station (NCS) for this event was Jim Lewis AB5YS, Louisiana Traffic Net Manager, who kicked off the net with the preamble and listing those checking into the net. Herman KN5GRK opened the net with the following scenario:

### **TEST SIMULATION - TEST SIMULATION**

A EF-2 tornado (111-135 MPH) touched down in the small community of Bisque, Louisiana on the outskirts of Jena, Louisiana north of Alexandria, Louisiana at 0950 central time on August 25, 2019.

Reports of extensive damage to approximately nine homes and three mobile homes, several trees and downed power lines occurred, no fatalities reported so far, only a few moderate injuries to several persons reported that needed medical attention to local hospitals.

FEMA, The Red Cross and The Salvation Army in Alexandria, Louisiana have been notified to help access damage and provide food and shelter to those needing assistance.

### **TEST SIMULATION - TEST SIMULATION**

After some discussion between members on the above scenario, a test ARRL Radiogram was sent to the Salvation Army in Alexandria, Louisiana requesting a canteen to be sent to the site to help feed and shelter those affected in the incident.

Jim AB5YS, stressed the importance of training exercises such as this to be prepared in emergencies that may arise at any time. If such emergencies happen, he suggested that you monitor 3910 KHz and 7.245 MHz along with the Louisiana ARES Net frequency of 3878 KHz and in case of a life/death or property situation, any means of communication is permitted regardless of frequency, mode or power is permitted.

Those taking part in this event were: Jim AB5YS (NCS), David KA5ZEJ, Mike WD5JTZ, Tina KA5HSL, Mike N5MJL, Grady KB5SDU, Dick WA5CAV, Jackie KA5LMZ, James K5CNU, J.J. N5WWL, David KG5SBA, Larry W5LPD and Herman KN5GRK. Thanks to Ramona for coming up with the fictitious town of "Bisque, Louisiana.

The net ended at 1707 hrs central and took standby break for the Sunday LTN Net at 1800 hrs on 3910 KHz. The Louisiana Traffic Net is held four times a week on Monday, Wednesday, Friday and Sunday at 1800 hrs central time on 3910 KHz.

## Young Radio Amateurs from around the World Enjoying YOTA Summer Camp



The 9th annual Youngsters on the Air (YOTA) Summer Camp opened August 11 in Bankya, Bulgaria, under the sponsorship of the Bulgarian Federation of Radio Amateurs (BFRA), Bulgaria's International Amateur Radio Union member-society. After welcoming words from BFRA and IARU Region 1 representatives, the YOTA participants joined local residents and a performing troupe in dancing to traditional Bulgarian folk music. Approximately 80 young radio amateurs from 28 countries have been engaged in activities ranging from operating the camp station LZ19YOTA, to kit building and antennas, sightseeing, and getting acquainted.

"There is unfortunately no team from Region 2 (the Americas) taking part this year," IARU Region 1 Youth Working Group Chair Lisa Leenders, PA2LS, told ARRL. "Most [participants] are from Europe, but also South Africa, Algeria, Tunisia, and New Zealand." Participants all are under the age of 26.

Given the international nature of Amateur Radio, cultural exchange won't be in short supply, with attendees sharing national cuisine and wearing their respective traditional dress. A YOTA intercultural evening, group work, and the Train The Trainer (TTT) program -- instituted at last year's Summer Camp -- have been among the activities. TTT is aimed at imparting skills, ideas, and knowledge that attendees can use to initiate similar youth activities back home.

As they assemble circuit boards, participants learn how to use test equipment. More experienced youngsters help those with less soldering experience. Operating the camp's LZ19YOTA ham station has been part of the mix.

Youth teams are attending from Albania, Algeria, Bulgaria, Croatia, Czech Republic, Estonia, Ethiopia, Finland, France, Germany, Hungary, Iceland, Italy, Kosovo, Lithuania, New Zealand, North Macedonia, Romania, Serbia, Slovakia, South Africa, Spain, Sweden, Tanzania, The Netherlands, Tunisia, Turkey, and the UK.

The YOTA Summer Camp in Bulgaria continues through August 17.

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## The World Wide Radio Operators Foundation (WWROF) receives donation

The World Wide Radio Operators Foundation (WWROF) has announced receipt of a \$25,000 donation from a well-known contesteer. The contribution from Charles "Chick" Allen, NW3Y, of Seaford, Delaware, will be used at the discretion of the WWROF Board of Directors to promote and enhance youth involvement in radiosport, WWROF said in announcing the contribution. "It is truly an honor to work with WWROF by providing support for one of Amateur Radio's greatest needs -- encouraging youth to discover and enjoy radiosport in new and creative ways," Allen said. WWROF Chairman Tim Duffy, K3LR, thanked Allen for his generosity. "On behalf of the WWROF, I want to express our gratitude for Chick's donation and am excited about what it will mean for the future of contesting."

## *Ending the Great Radio Silence after "The Great War"*

Practical wireless was still in its infancy at the turn of the 20th century and unregulated experimentation rampant. Chaos reigned on the airwaves. Given the technology of the day -- spark gap transmitters that emitted very, very broad signals -- interference was a problem. As Al Brogdon, W1AB, explains in "The World War I Shutdown," in the September 2019 issue of QST (p. 70), hams, passenger ships, and the US Navy were the main users of wireless, and the Navy went to Congress in an unsuccessful effort to wrest control over radio and, effectively, abolish ham radio in the US. Radio amateurs opposing the bill had an ally in the Marconi Company.

When the US in 1917 joined the European conflict that became World War I, the federal government ordered hams to disassemble their stations, lower their antennas, and not use transmitters or receivers. Many hams who joined the military took their own radio gear along, because, as Brogdon explains, "the military didn't have enough radio equipment."

The end of the war did not mean the resumption of Amateur Radio. Hams were allowed to use their receivers again but not transmit. The Navy was still in charge of all US radio communications, and another bill introduced in Congress proposed handing over ongoing control of all radio to the Navy.



**ARRL First President Hiram Percy Maxim, W1AW.**

Publication of QST also ceased during the war, and many hams had let their ARRL memberships lapse for the duration. ARRL officers and key members dug into their own wallets to thwart the bill, mailing a "Little Blue Card" to members urging them to ask their congressional representatives to oppose the Navy proposal. ARRL President Hiram Percy Maxim went to Washington to speak against the bill, which died in committee.

It was not until 1919 -- amid another Navy effort to gain control over radio that was stalled by opposition from hams and others -- that the transmitting ban was lifted by an act of Congress. As Brogdon explains, "Maxim went to Washington again and found a sympathetic ear in Massachusetts Congressman William Greene, who ultimately introduced the successful House Joint Resolution 217, which asked the Navy 'to remove the restrictions on the use and operation of Amateur Radio stations throughout the United States.'"

Hams were back on the air by the fall of 1919 -- 100 years ago!

**Reminder:** *The Hiram Percy Maxim Birthday Celebration* gets under way on Saturday, August 31, and wraps up on Monday, September 8. The 9-day operating event commemorates the 150th anniversary of the birth of ARRL cofounder and first president Hiram Percy Maxim, W1AW (HPM) -- born on September 2, 1869 -- and is open to all radio amateurs. The objective is to work as many participating stations as possible. W1AW and all ARRL members will append "/150" to their call signs during this event (DX operators who are ARRL members may operate as <call sign>/150, if permitted by their country of license.) Stations will exchange a signal report and ARRL/RAC Section. A total of 84 multipliers are available. DX stations will send a signal report and "DX." All Amateur Radio bands except 60, 30, 17, and 12 meters are available. Contacts may be made on CW, phone, and digital modes. Incentives are available for using different modes, operating portable, and using social media, among others. Logs will be scored, and downloadable certificates will be available. An announcement and complete rules appear in the September issue of QST, p. 86.



**April 2019 AREA 2 METER NET REPORTS**

NET	SESSIONS:	TOTAL CHECK-INS:	TOTAL TRAFFIC:	TOTAL TIME: Minutes	Net Manager
AARA Monday Night Net	4	50		112	KD5JSM Danny
Region 4 SkyWarn Net	4	33		67	KF5FNP Glen
Silent Key Memorial Net	5	44		81	KD5JSM Danny
Thursday Night Net Cancelled for now					

**“Those who dare to fail miserably can achieve greatly.”** ~~~ John F. Kennedy

**AARA Monday Night 2 Meter Net Rotation**

Net Controllers will rotate each week and held on the 146.820 W5DDL repeater only.

The 146.820 and 443.00 repeater located on the Chase Towers downtown Lafayette are down indefinitely due to roof repairs. The Monday Night Net and the Silent Key Memorial Net is being held on the 147.040 repeater in Duson, LA until repairs are made. The 145.410 in Lydia is back up, PL of 123.0.

The September 2019 schedule can be downloaded and printed in Adobe Acrobat .PDF from the club website.

<http://www.w5ddl.org/clubsuite/news/htm>

DATE:	TIME:	REPEATER:	PL TONE:	NCS
09/02/2019	7:00 PM	146.820 W5DDL	103.5	Danny KD5JSM
09/09/2019	7:00 PM	146.820 W5DDL	103.5	Paul N5KNY
09/16/2019	7:00 PM	146.820 W5DDL	103.5	Eric KG5JHP
09/23/2019	7:00 PM	146.820 W5DDL	103.5	Chris N5MCY
09/30/2019	7:00 PM	146.820 W5DDL	103.5	

**UPCOMING BIRTHDAYS**

09/02		Ruth
09/10	KI5FYZ	Clifton
09/10	KG5ZUR	Corey
09/10		Linda
09/13	W5MLE	Fred
09/15	KG5FMP	John
09/17	KF5THS	A.J.
09/19	WD5CAE	Melvin
09/22	KG5VPR	Paige
09/24	KE5UPK	Irma
10/04	K5LFT	Greg
10/04	KI5DHH	David
10/05	W5OHJ	Tom
10/08	KB7ABJ	William

**REGION 4 SKYWARN NET**

Each Tuesday night at 7:00 PM (local), the Region 4 SkyWarn Net will take place on the 145.370 SkyWarn repeater in Lafayette. Net Control Operators will alternate each week.

In case the 145.370 repeater fails, the net will be held on the 146.820 W5DDL repeater PL Tone 103.5.

The September schedule can be found at this link:

<http://www.w5ddl.org/clubsuite/news/htm>

When using the SkyWarn 145.370 repeater, be sure to use the receiver

PL Tone for your area as follows:

NW Quadrant 114.8 - NE Quadrant 127.3 - SW Quadrant 141.3 - SE Quadrant 94.8 - Central 103.5.

Some members failed to put their birthdays on their applications for renewal / membership causing some names to be missing from the list.



# The Greater New Orleans Ham Fest



W5CCG

Sponsored by  
Crescent City  
Amateur Radio  
Group, Inc.

November 2, 2019 - 8 AM to 1 PM

**Harahan Lions Club**

1001 Hickory Ave. Harahan LA 70123



**FREE Tables - FREE Tailgating - FREE Parking**

**WE WILL RAFFLE 20 RADIOS!**

The Greater New Orleans Ham Fest is Sponsored by the Crescent City Amateur Radio Group Inc. The Ham Fest is schedule for November 2, 2019 at the Harahan Lions Club Building located at 1001 Hickory Ave. Harahan La..

Doors open at 8:00 am, set up will be at 5-7 pm Friday November 1, and November 2 at 7 am to 8:00 am.

## **FREE FLEA MARKET TABLES ARE AVAILABLE....**

We still have a few Flea market tables available. If you like to reserve a table please contact Steve at [n5wxc@hotmail.com](mailto:n5wxc@hotmail.com) or me Joe at [n5ozg@hotmail.com](mailto:n5ozg@hotmail.com) or at 504-288-7084..REMEMBER THE TABLES ARE FREE....

We currently have 4 vendors line up for the Ham Fest....

Feel Free to bring the kids to the ham fest, we will have activities for the kids. arts & crafts and much more for them to do..

Talk in will be on 146.82/147.105 PL Tone 114.8 hertz repeaters.  
Coffee, donuts and soft drinks will be served for a small charge.

Don't forget our raffle. We will raffle 23+ radios. In including 3 HF rigs., mobile rigs, and handhelds.  
PS. For the 2020 Ham Fest we are considering a 2 day Ham Fest...  
Hotels & Camp Grounds for Motor Homes Near the Ham Fest...

If you have any questions feel free to contact Joe at 504-288-7084 or at [Joen5ozg@hotmail.com](mailto:Joen5ozg@hotmail.com) or Eric at [af5jg@outlook.com](mailto:af5jg@outlook.com) or Steve at [N5WXC@hotmail.com](mailto:N5WXC@hotmail.com) or at

Greater New Orleans Ham Fest  
Crescent City Amateur Radio Group  
PO Box 2613  
Kenner La. 70062

**Acadiana Amateur Radio Assoc., Inc.**  
**P. O. Box 51174**  
**Lafayette, LA 70505-1174**  
Website: <http://www.w5ddl.org>



*Share the Fun ~  
Bring a Friend  
to be a HAM.*

### UPCOMING EVENTS

**Tour du Teche  
Veteran's Day Special Event**

**October 4-6  
November 9**

**various locations along the Teche Bayou  
Jennings, LA**

### Taco Casserole

I ran across this simple recipe for a Taco Casserole online. Tastes good.

1 ½ Lb. Ground Beef	1/3 Chopped Onion
1 can Enchilada Sauce	1 can Rotella
1 bag Fritos Corn Chips	1 bag Shredded Cheese
¾ Cup Lettuce, shredded	12 oz, Salsa
8 Oz Sour Cream	

Brown ground beef with onion. Add Rotella and Enchilada Sauce. Stir well.

In a 9x13 pan, repeat layers as follows: Frito Chips, Meat Mixture, and Shredded Cheese.

Bake at 350 for 15-20 minutes or until cheese is bubbly.

Top individual servings with lettuce, salsa, and sour cream as desired.

NOTE: You can vary this by using "HOT", "Medium", or "Mild" salsa and Rotella as personal prefers vary.

### **FCC Information Service**

*Toll Free (WATS) for Amateur Radio license inquiries about new/vanity call signs: 1-888-225-5322 This will connect you to the FCC National Call Center, handled by the FCC's Consumer Information Bureau. Amateurs having ULS problems or questions should contact the FCC's ULS Technical Support staff at: 202-414-1250 or:*

*[ulscomm@fcc.gov](mailto:ulscomm@fcc.gov)*

**FCC Website:**

*<http://wireless.fcc.gov/uls/>*

*New call sign information can also be obtained from the ARRL/VEC at 860-594-3000.*

*<http://www.arrl.org/arrlvec>*

*The mailing address to the FCC is:*

*Federal Communications Commission,  
445 12th Street SW  
Washington, DC 20554*